



PONDICHERRY UNIVERSITY

R.V. Nagar, Kalapet, Puducherry- 605014

Tender Notification

Sub: Pondicherry University- Supply & Installation of a **Tubular Furnace** under Science and Engineering Research Board (SERB), Govt. of India funded project -Sealed Quotations called for – reg.

Sealed quotations are invited from reputed manufacturers / authorized dealers of reputed manufacturers for Supply & Installation of following equipments as per following specifications.

Tubular Furnace:

Description	Specification
Furnace type	<ul style="list-style-type: none">• 1400°C or Higher temperature Tube Furnace with gas passing/control facility
Dimensions of Uniform Hot Zone of 1400°C or higher temperature	<ul style="list-style-type: none">• Inner Diameter of Hot Zone: 50 mm or higher• Outer Diameter of Hot Zone: 60 mm or higher• Length of Hot Zone: 250 mm or higher• Length of Tube: 1000 mm or higher
Tube material	<ul style="list-style-type: none">• Preferable alumina.• At least 1 No. additional spare tube to be provided.
Furnace Body	<ul style="list-style-type: none">• Double layer steel body with outer cooling fan and superior finish
Tube material	<ul style="list-style-type: none">• Preferable alumina
Insulation Type	<ul style="list-style-type: none">• Minimum three layer insulation with Vacuum Formed Fiber Boards material or better
Surface temperature	<ul style="list-style-type: none">• Surface Temperature @ 1400°C: < 60°C or lower
Type of Heating Elements	<ul style="list-style-type: none">• Alpha Recrystallized SiC elements or better.• Must be trouble free operation at 1400°C for long duration. Maximum life of heating elements.
Maximum Working temperature	<ul style="list-style-type: none">• 1400°C for several hours
Cont. Operating temperature	<ul style="list-style-type: none">• 1350°C or higher for long duration
Furnace Maximum KW rating	<ul style="list-style-type: none">• 3-4 KW
Furnace Voltage Rating	<ul style="list-style-type: none">• 220 Volts
Furnace Current Rating	<ul style="list-style-type: none">• 20 Amps
Type of Thermocouple	<ul style="list-style-type: none">• R-Type
Number of Thermocouple	<ul style="list-style-type: none">• 1 housed in protective High Alumina Tube
Power Supply	<ul style="list-style-type: none">• Thyristor based using Programmable (PID) controller of Yudian 526P or better

Temp. control	<ul style="list-style-type: none"> • PID and Thyristor based power supply with • programmable Temperature controller of 31 ramp soak steps or better. • Must have special circuit to give current feedback and current limit features to increase life of heating elements.
Temperature Control Resolution	<ul style="list-style-type: none"> • +/- 1°C or better
Heating Rate °C/Min	<ul style="list-style-type: none"> • - 10°C/min
Phase	<ul style="list-style-type: none"> • Preferable Single phase
Flange	<ul style="list-style-type: none"> • Aluminium Flange with o-ring or suitable flange with o-ring. • Water or air cooling to avoid flange damage should be taken care.
Spares and accessories	<ul style="list-style-type: none"> • Shielding for radiation and other necessary accessories should be provided

TERMS AND CONDITIONS

I. General Information:

- a) Last date and time of receipt of the Quotations: **May 5, 2017, 3.00 PM**
- b) Date and Time of Opening of the Quotations: **May 5, 2017, 3.30 PM**
- d) Quotation / Tender Document fee: Rs. 500/-
- e) EMD rates: 2.5% of the quoted price for each equipment.
- f) **Two bid systems have to be strictly followed.** One for Technical bid and another for commercial bid and each bid should be submitted in separate sealed covers.
- g) However, the tender document fee and EMD as specified above should be remitted by each firm / bidder, collectively for all their bids advertised under this tender.
- h) Quoting merely the lowest price does not confer any right to any bidder for award of supply order. The University's Purchase Committee, reserves the right to select the equipment any bid under the grounds of specification compliance, technologically advanced quality, proven performance track record, brand reputation, service backup support & training, offer of additional / special features, compatibility with the existing System, etc.
- i) The Tender Document Fee and EMD should be submitted in a separate cover super scribing **Bank Demand Draft** and which should be enclosed with the technical bid.
- j) The Photo Copies of the Bank Instruments on payment of EMD should be attached with each bidding covers.

- k) The tender / quotation must be submitted along with the stipulated tender document fee and EMD in the sealed cover, super-scribing the name of the Department / Centre for whose equipments the tender is quoted for.
- l) The cover should also contain the information like, Name of the Equipment and Serial Number of Equipments for which the bids are submitted. The name and address of the bidder should also be mentioned at the from address space.
- m) The tenders should be addressed to the Principal Investigator, Pondicherry University.

The examples for super-scribing the envelopes of the different categories of tenders are given below:

Tender submitted under two bid system for the <u>Centre for Green Energy Technology</u> Name of the Equipment: _____	
From Supplier's Address	To Dr. P. Elumalai Associate Professor, Principal Investigator (SERB), Centre for Green Energy Technology, Pondicherry University, R.V. Nagar, Kalapet, Puducherry – 605014.

In case of local delivery, all tenders are to be dropped in the tender box placed at the Information Facilitation Counter, Bharat Ratna Dr. B. R. Ambedkar Administrative Block, Pondicherry University, R.V. Nagar, Kalapet, Puducherry – 605 014.

n) Quotations will not be accepted through fax / e-mail.

II. Common Conditions (Import or Indigenous)

1. Purchase of Quotation Document:

The Quotation / Tender document can be downloaded from the University website **www.pondiuni.edu.in** or procured from the Pondicherry University on payment of fee as specified above, by means of a D.D, drawn in favor of **The Finance Officer, Pondicherry University, payable at Puducherry**. The downloaded application should be accompanied with the quotation document fee, in the form of a Demand Draft.

2. Price Schedule

The rates should be quoted for a single unit and also for the total quantity required by the University. The price should include the delivery, installation, training charges, etc. at the

respective Department, Pondicherry University. The prices quoted shall remain firm until the equipment is supplied to the respective Department, Pondicherry University.

3. Quoting the Core price & Tax, Duties, Discount etc.

The taxes / duties / discounts, if applicable, are to be explicitly and separately shown in the bid.

4. Eligibility:

The firm must have the requisite domain expertise with regard to supply, installation and post sale service of the items they are quoting. The firm should have been in existence for at least six years as on the date of this quotation and must have executed at least three orders for this kind of equipment during the last three years. Company should be ISO certified. The firm should have not incurred any loss in the last three years.

5. Installation:

The engineer should install the equipment **free of cost** at the site. However, utilities like power, water, air etc. will be provided.

6. Delivery:

Within **4** weeks or earlier from the date of receipt of purchase order.

7. Duty Exemption

The University has been granted the benefit of exemption from the payment of the Central Excise Duty and Customs Duty by the Department of Scientific and Industrial Research (DSIR), India, vide their Notification No.10/97 dt. 01-03-1997 and 51/96 dated 23.07.96 respectively, in respect of

- a) Scientific and technical instruments, apparatus, equipment, Software including computers.
- b) Accessories and spare parts of goods specified in (a) above and consumables.
- c) Computer software, compact disks, CD ROM, Recording magnetic tapes, microfilms, microchips etc.
- d) Prototypes.

Customs duties at Indian port, if any, will be to the account of the University.

8. WARRANTY:

- i) The equipments covered under the purchase order, when installed, shall be warranted for the quality, workmanship, trouble free operation and performance for a period of **12 months or higher months** from the date of putting the system into operation at the Centre for Green Energy Technology, Pondicherry University.
- ii) If any item covered under warranty fails, the same shall be replaced free of cost including all the applicable charges including shipping cost both ways.
- iii) Complete technical specifications to be included in the Technical bid.
- iv) The necessary service support should be provided by Bidder during the agreement period.

- v) The training should be provided by the supplying companies for a minimum period of two days from the date of installation with an expert team.
- vi) Technical post sale support by email and telephone should be provided during the period.
- vii) Operating Manual should be provided in English.
- viii) A clear statement regarding availability of after-sales service and availability of spare-parts for next 5 to 10 years should be included.
- ix) A recent customer list (within last five years) with contact details including email address is to be submitted with technical bids / bids as the case may be.
- x) If the equipment is proprietary a product, a proprietary product certificate should be enclosed.
- xi) The information pertaining to infrastructural, power and any other requirement for satisfactory installation and commissioning of the whole system must be provided by the bidder, at least 30 days in advance of the installation to be commenced if purchase order is issued.
- xii) The equipment must operate at 230V/50 Hz single phase and / or equivalent three phase electrical power.
- xiii) If the bidder is an authorized representative in India, they are requested to inform their technical ability to take care of the problems in the system, if developed later within the warranty and outside the warranty period. The responsibility of the Indian agent must be clearly specified.
- xiv) The bidder from abroad shall obtain, if required, export permission from the appropriate authorities in his country or the country of origin for items to be shipped to India in case of items to be imported. The University shall provide necessary information if required for this purpose.
- xv) The validity of the each quotation should be at least for THREE MONTHS or more from closing date.
- xvi) The offers will not be considered if received after the bid closing date and time.
- xvii) The offers received through telex / telefax / e-mail will not be accepted by the University under any circumstances.
- xviii) The University shall not be responsible for any delay / loss or non-receipt of quotations by post / courier service.
- xix) No unsolicited correspondence shall be entertained after the submission of the offer.

- xx) If an order is placed with the firm, the purchase shall be governed by an agreement as per the University rules in force at the time.
- xxi) Additional terms and conditions will be incorporated in the purchase order, if needed, to safe guard the interests of the University.
- xxii) Quotation is not transferable.
- xxiii) In case of any dispute in respect of the quotation, all legal matters shall be instituted within the jurisdiction of the place where the purchaser ordinarily resides.

9. Power to reject the offer:

- i) Pondicherry University reserves the right to accept / reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof. Any offer containing incorrect and incomplete information shall be liable for rejection.
- ii) No Agency commission will be paid to any authorized agent in India.
- iii) Liquidated damages: Timely supply of the ordered items, installation, commissioning (wherever is applicable) and training etc. is the essence of the contract. In case of failure to supply within the time specified in the Purchase order, a penalty / LD of 0.5% of the total value per week or a part thereof shall be levied subject to a maximum of 7.5% in respect of items which are not supplied. The decision of Pondicherry University shall be final in this regard.
- iv) Bidder(s) must be authorized business partners of Global / National service providers of the respective equipment.
- v) The Bidders must enclose authorization letter from the respective global / national service providers of the above equipments particularly mentioning an undertaking that in case of default by the Bidder, they (Global Service Provider) shall take over all the responsibilities of the Bidder.
- vi) The Bidder should not be involved in any Bankruptcy filing for protection from it.
- vii) The training should be provided by the supplying companies on the specimen and operation of the equipments for a minimum period of two weeks from the date of installation with an expert team.
- viii) For any clarification with respect to technical specifications, please contact the PI of the project as per the details given below: -

Sl. No.	Name of the Department/Centre	Name of the PI	Contact Details
01.	Centre for Green Energy Technology	Dr. P. Elumalai Associate Professor & PI	09751645895; 0413-2654867

III. Specific Conditions for Imported Equipments

1. Payment of EMD:

The Quotation must be accompanied by EMD as stated above, by means of a Demand Draft, drawn in favor of ***The Finance Officer, Pondicherry University, payable at Puducherry.*** *The Small Scale units are exempted from payment of EMD provided they enclose the proof of their exemption Certificate issued by the competent authority.*

2. *Payments terms:*

- i) Normally a letter of Credit will be opened for 90% of CIP price, on receipt of order acknowledgement. However, 100% of the LC also be considered, if the supplier provide Bank Guarantee towards performance Security for the 10 % of the total cost of the equipment to cover the Warranty Period. No advance payment will be made.
- ii) Bank charges in India shall be borne by the purchaser and outside India shall be borne by the contractor / supplier.
- iii) The offer must be in English. The rates should be indicated both in figures and words against item specified in the given table. It is preferable that the price be quoted in Rupees or in US Dollars or in major foreign currencies.
- iv) The total cost should be quoted for FOB as well as CIF – Pondicherry University.
- v) However, the price quoted under FOB or should also include the following cost if they are required during the initial stage:
 - a) Local freight / insurance for Chennai airport to University laboratory.
 - b) Installation cost if any.
 - c) Cost of consumables which are required for the equipment for initial operation upto a reasonable time.
- vi) In case of the Principal supplier of Foreign country unable to meet the conditions stated at para no.4, the local agent / dealer should fulfil the above said conditions in respect of Local Insurance, Freight, safety transport and installation, etc.
- vii) The bidder from within India shall obtain the requisite approval for Imports etc., if required.
